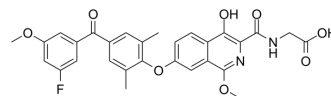


TR β agonist 1

Cat. No.:	HY-146997
CAS No.:	2770681-85-9
Molecular Formula:	C ₂₉ H ₂₅ FN ₂ O ₈
Molecular Weight:	548.52
Target:	Thyroid Hormone Receptor
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TR β agonist 1 is a selective and mutation-sensitive thyroid hormone receptor β (TR β) agonist, with an EC ₅₀ value of 21 nM. TR β agonist 1 can be used for researching dyslipidemia, nonalcoholic steatohepatitis (NASH), and resistance to thyroid hormone (RTH) ^[1] .
IC₅₀ & Target	EC ₅₀ : 21.0 nM [TR β (WT)], 1344.0 nM [TR β (H435R)] ^[1]
In Vitro	<p>TRβ agonist 1 (compound 16g) (1, 3, 10 μM; 24 hours) reduces lipid accumulation and cholesterol levels by triglyceride (TG) and total cholesterol (TC) analyses in HepG2 cells and primary mouse hepatocytes; also reduces the total lipid accumulation at 10 μM^[1].</p> <p>TRβ agonist 1 (10 μM; 24 hours) induces a significant enhancement of the p-AMPK/AMPK ratio, the p-ACC/ACC ratio, and CPT1 levels^[1].</p> <p>TRβ agonist 1 (0.01, 0.1, 1 and 10 μM; 24 hours) does not display significant cellular toxicity on multiple cell lines (HepG2, 22Rv1, A549, MCF7, MDA-MB-231, HFL-1, and BxPC-3) at concentrations up to 10 μM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Li Q, et al. Discovery of a Highly Selective and H435R-Sensitive Thyroid Hormone Receptor β Agonist. *J Med Chem.* 2022;65(10):7193-7211.

Caution: Product has not been fully validated for medical applications. For research use only.

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